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# NUMBERS & ODDITIES #
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-::: N&O #60, April 2003 :::-

In front of you is the 60th edition of Numbers & Oddities. Besides the usual rundown of the numbers and military stations, you'll find an intelligence profile of Poland in the newsletter edition.

The war in Iraq did not result in a numbers stampede, unfortunately. Luckily, a possible new station was discovered in April, so there is something to report :-)

Besides that, Bob sent me his E10 findings and Fritz supplied his logs of the Czech military stations.

Have I mentioned www.utdx.de before? I don't think so. It is a Ute website in Germany. Check the "Mysteries" tab for a couple of odd signals.

Our old friend Toby has recently updated his website with more WW II crypto info. Interesting stuff! <http://hem.passagen.se/tan01/>

And now for something completely different..... "Music for DXing" is a collection of songs created and performed by "Spunkle". Inspired by the sounds of SW radio and numbers stations in particular, Spunkle recorded a number of songs that actually include samples of rtty, morse and numbers stations. The songs have appealing titles as "Russian Man", "OTH" and "In search of XPH". The sound is best described as a mix of ambient and experimental music, or "working music" as Spunkle's Jim calls it.

Finally, a big THANK YOU! to all who supplied logs and info.

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* VOICE STATIONS *

::: E03 / E04 Idents

Lincolnshire Poacher E03
IDs as of April 1st, 2003

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	92704	92704	92704	92704	92704	92704	92704	1200
1300	33127	33127	33127	33127	33127	33127	33127	1300
1400	60246	05080	27005	20259	92704	14939	20511	1400
1500	20511	60246	05080	27005	20259	92704	16577	1500
1600	16577	20511	60246	05080	27005	20259	14939	1600
1700	14939	16577	20511	60246	05080	27005	92704	1700
1800	92704	14939	16577	20511	60246	05080	20259	1800
1900	20259	33127	14939	33127	20511	60246	33127	1900
2000	33127	92704	33127	16577	33127	20511	27005	2000
2100	27005	20259	92704	14939	16577	33127	05080	2100
2200	05080	27005	20259	92704	14939	16577	60246	2200

IDs as of April 15th, 2003

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	78418	78418	78418	78418	78418	78418	78418	1200
1300	83222	83222	83222	83222	83222	83222	83222	1300
1400	84479	81241	45072	35916	78418	20967	04128	1400
1500	04128	84479	81241	45072	35916	78418	61478	1500
1600	61478	04128	84479	81241	45072	35916	20967	1600
1700	20967	61478	04128	84479	81241	45072	78418	1700
1800	78418	20967	61478	04128	84479	81241	35916	1800
1900	35916	83222	20967	83222	04128	84479	83222	1900
2000	83222	78418	83222	61478	83222	04128	45072	2000
2100	45072	35916	78418	20967	61478	83222	81241	2100
2200	81241	45072	35916	78418	20967	61478	84479	2200

Cherry Ripe E04
IDs as of April 4th, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000			43914	54250	85318	45489	0000
0100			54250	85318	45489	82471	0100
1000			85318	45489	82471	61640	1000
1100			45489	82471	61640	54250	1100
1200			82471	61640	54250	07820	1200
1300			61640	54250	07820	43914	1300
2200		54250	07820	43914	54250		2200
2300		07820	43914	54250	85318		2300

IDs as of April 11th, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
-----	-----	-----	-----	-----	-----	-----	-----

0000		07820	43914	54250	85318	45489	0000
0100		43914	54250	85318	45489	82471	0100
1000		54250	85318	45489	82471	61640	1000
1100		85318	45489	82471	61640	54250	1100
1200		45489	82471	61640	54250	07820	1200
1300		82471	61640	54250	07820	43914	1300
2200	61640	54250	07820	43914	54250		2200
2300	54250	07820	43914	54250	85318		2300

IDs as of April 18th, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		07820	40599	88981	36447	62155	0000
0100		43914	88981	36447	62155	96259	0100
1000		54250	36447	62155	96259		1000
1100		85318	62155	96259	09582	88981	1100
1200		45489	96259	09582	88981	98906	1200
1300		82471	09582	88981	98906	40599	1300
2200	61640	88981	98906	40599	88981		2200
2300	54250	98906	40599	88981	36447		2300

IDs as of April 25th, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		98906	40599	88981	36447	62155	0000
0100		40599	88981	36447	62155	96259	0100
1000		88981	36447	62155	96259	09582	1000
1100		36447	62155	96259	09582	88981	1100
1200		62155	96259	09582	88981	98906	1200
1300		96259	09582	88981	98906	40599	1300
2200	09582	88981	98906	40599	88981		2200
2300	88981	98906	40599	88981	36447		2300

Thank you Tomonori and Al.

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::: E10

Only a handful of special logs this month:

02 April, 2131 UTC, 7445 kHz: MIW 63
06 April, 2208 UTC, 3557 kHz: MIW 61Z18Z82Z071100
07 April, 2102 UTC, 4560//5820 kHz: YHF1
21 april, 2100 UTC, 13533 kHz: EZI1

Bob Swartz checks in with his E10 observations. He noticed a couple of interesting things. Bob, you have the floor!

"Unusual activity on E10. 10 April 2003, 2230z sked.
EZI on 9130k, parallel freq of 11565 heavily overridden.
Two messages were sent; 49/SBGOD and 62 AOPPL.
These messages were previously sent as single messages
on the 2230Z sked; 49/SBGOD from 02-07 March 2003
62/AOPPL from 27-30 March 2003

Has anyone else seen combined repeats of messages?
I am also seeing two sets of daily repeats of messages
on EZI. The message on the 2000z sked is repeated on the
2200z sked and the message on the 0130z sked is repeated
at 2130z. In addition, there is a daily repeat of messages
on ART. The message on the 0200z sked is rebroadcast at
2200z."

Bob continues:

"E10 continues to do strange things as we continue to look
at it. Previously there was a report of daily repeat of
messages at 0200z and 2200z. This has expanded to include
another repeat at 0100z. Following activity observed:

13 April at 2200z ART 93 XTFFU, heavy override, but enough
text copied to match with later sked.
14 April at 0100z ART in tfc, message text not compared
untill later, now known to be 93 XTFFU.
13 April at 0200z ART 93 XTFFU, message text clear, able
to match two previous skeds with it.
17 April at 0100z ART 93 XTFFU, message text clear.
17 April at 0200z ART 93 XTFFU, some override, but enough
text copied to match.

All above activity on 5435 kHz. Search of numbers data base
for ART activity at 0100z reveals only one previous record
a couple of years ago.

Oh yes, 0200z sked on 17 April at 5435 kHz started out with
ULX calling along with ART. The fight stopped after a minute
and ULX appeared on 4880 kHz.

I would like to enlist the help of anyone who could assist
in periodically checking these skeds with me. Especially the
2200z sked that is early in the evening at my location. Will
keep on listening and sending stuff in."

Thanks for these interesting notes, Bob. Much appreciated. If anyone
wants to help Bob to check the frequencies, please mail him at
robert.k.swartz@lmco.com

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The following V09, V22 and V25 schedules appeared on Tomonori's BBS.
Thanks to whoever posted them!

::: V09 GUANGZHOU

Dates	UTC	Frequencies
-----	----	-----
3, 19	1500	10750
5, 25	1500	6885
11, 15, 27	1530	6885//10750
25	1600	12012
3, 19	1600	6885//10750
3, 19, 27	1630	12012
5, 15, 25	1630	7750//10750
5	1700	6265
11	1700	7750
15, 19, 25	1700	12012

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::: V22 BEIJING

Weekdays: 1300, 1330, 1400, 1430, 1500 UTC on 8375 kHz. Sometimes other transmissions are aired on 8375 kHz at 1600, 1630 and 1700 UTC.

Dates	UTC	Frequencies
-----	----	-----
5, 20	0000	16520
5, 15, 20	0030	16520
2nd FRI	1600	10200
24	1630	10200
11, 26	2030	4760//6375
1st and 3rd Sat	0930	15640
14	1730	6465//8375
2, 3, 16, 21	1630	6465//8375
10, 15	0900	18020
1, 16	0100	16835
22	1800	8375//10500
23	0630	17310

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::: V25

Dates	UTC	Frequencies	Callsigns
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-----
09, 24   1300   8195   516 clg 384
20       1300   9260   064 clg 315
09       1330   8870   516 clg 384
12, 22   1430   9240   323 clg 634
24       1500  10017   323 clg 634
18       1700  15958   316 clg 728

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* MORSE STATIONS *

::: M10

Last month someone asked for current freqs an times of M10. I compiled a list for those who are interested. So, there is no reason for not sending us your M10 logs now :-)

Freq	call	//freq	day	UTC
----	----	-----	---	----
4485	555		Sun	0210
5027	555		Sun	0210
6758	555		Sun	0210
4485	555		Sun	0410
5027	555		Sun	0410
6763	444		Sun	0410
6763	555		Sun	0410
6763	666		Sun	0410
6763	777		Sun	0410
4030	555	//6763	Sun	1630
6763	555	//4030	Sun	1630
4958	555	//7605	Sun	1720
7605	555	//4958	Sun	1720
3631	555	//5471	Sun	1800
3631	777	//5471	Sun	1800
5471	555	//3631	Sun	1800
5471	777	//3631	Sun	1800
3810	555	//5861	Sun	1920
5861	555	//3810	Sun	1920
4007	555		Sun	2100
4485	555		Mon	0210
6758	555		Mon	0210
4485	555		Mon	0400
6763	444		Mon	0410
5301	555		Mon	0450
4030	555	//6763	Mon	1630
6763	555	//4030	Mon	1630

4958	555	//7605	Mon	1720
7605	555	//4958	Mon	1720
3810	555	//5861	Mon	1920
5861	555	//3810	Mon	1920
3522	555	//4007	Mon	2100
4007	555	//3522	Mon	2100
5301	555		Mon	2200

5945	555		Tue	1500
3522	555	//4007	Tue	2100
4007	555	//3522	Tue	2100

4485	555		Wed	0210
5027	555		Wed	0210
6758	555		Wed	0210
6763	555		Wed	0410
4030	555	//6763	Wed	1630
6763	555	//4030	Wed	1630
4958	555	//7605	Wed	1720
7605	555	//4958	Wed	1720
3522	555	//4007	Wed	2100
4007	555	//3522	Wed	2100
3522	555	//4007	Thu	2100

4007	555	//3522	Thu	2100
------	-----	--------	-----	------

3523	555	//5027	Fri	0210
5027	555	//3523	Fri	0210
5027	746		Fri	0210
4958	555		Fri	1720
7605	555		Fri	1720
3522	555	//4007	Fri	2100
4007	555	//3522	Fri	2100

3523	555	//5027	Sat	0210
4485			Sat	0210
5027	555	//3523	Sat	0210
6758			Sat	0210
5027	555		Sat	0410
6763	555		Sat	0410
4958	555	//7605	Sat	1720
7605	555	//4958	Sat	1720
3522	555	//4007	Sat	2100
4007	555	//3522	Sat	2100

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French station "8BY" was heard by Andy in Poland. He copied the station on 10248, 14930 and 20946 kHz with messages like these:

```
"vvv vvv vvv 8by 8by 8by 673/816/281/391/594"
"vvv vvv vvv 8by 8by 8by 099/862/429/709"
"vvv vvv vvv 8by 8by 8by 533/433/459/161/609"
```

The complete set of 8BY's frequencies is 7668, 10248, 12075, 14931, 18415 and 20946 kHz.

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::: M21, M21 VARIANTS, M41

As usual M21 keeps changing its frequencies. During March the following frequencies were used:

3314//4391	id 0	daily	from 1-3 until ...
5131	id 0	daily	from 5-3 until 10-3
5260,5	id 0	few msg	from 4-3 until ...
5873	id ?	QRM BC	from 1-3 until 2-3
6321,5	id 9	morning	from 5-3 until ...
7994	id 9	mornings	from 1-3 until ...
4771,5	id 9	few msg	from 25-3 until ...
3314//4391		daily	from 1-4 until 30-4
5260,5		daily	from 1-4 until 30-4
6321,5		sporadically	from 1-4 until 30-4
7994		sporadically	from 1-4 until 30-4

M21 variants

4959//3301	UCF6	sporadically	from 1-3 until ...
5765		sporadically	from 5-3 until ...
4418		daily	from 1-3 until ...
5340			from 12-3 until 12-3
5738			from 5-3 until 5-3
5733,5	WZD		from 24-3 until ...
3182,5	F6UC	sporadically	from 3-4 until 30-4
5733,5	WZD	sporadically	from 6-4 until 30-4
4133	F2KN	sporadically	from 9-4 until 30-4
5765		sporadically	from 1-4 until 10-4

The stations do not use time stamps like M21 does. The time indicator consists of minutes only. M41 (WZD) is apparently still alive.

Examples:

4418 8-3 1620 UTC xxx paba 17821 poseredryj 9524

5765	8-3	1625 UTC	xxx paba 17821 poseredryj 9524
5349	8-3	1630 UTC	xxx paba 17821 poseredryj 9524
5765	18-3	1525 UTC	xxx kwow don 789 k
	18-3	1619 UTC	xxx kwow tir 703 k
5733,5	24-3	1628 UTC	8705268682820
			8706268487820
			8701268686420
			8702368684222
			8703268284222

Observations:

3314//4391 kHz, 15-4, 1851 UTC: transmissions are // but apparently with independent keyers.
 4391 kHz, 25-4, 1928 UTC: keyer defective again.

<logged by Fritz Nusser>

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::: M29

Recently Igor asked for a sample of a complete message of VDE, which was posted by Laurent. So, for those of you who haven't logged this station yet, this is what it looks like:

```

VVV VVV DE VDE VDE VDE
VVV VVV DE VDE VDE VDE
VVV VVV DE VDE VDE VDE  +
VVV VVV DE VDE VDE VDE  =  =
65 65 31 31 13 13 2200 2200  =  =
66842 66842 85086 85086 11616 11616 20226 20226 85180 85180
50438 50438 36883 36883 77554 77554 44814 44814 30844 30844
83523 83523 52200 52200 00060 00060 74081 74081 34728 34728
81032 81032 78685 78685 52617 52617 47364 47364 00032 00032
72683 72683 28385 28385 14675 14675 60274 60274 23758 23758
88537 88537 51602 51602 30810 30810 53538 53538 32055 32055
58372 58372  +

```

One of my first 8BY encounters was 17 years ago. A sample can be found on the N&O website. I found it on 17 Feb 1986 at 2215 UTC on 4014 kHz. My equipment in those days consisted of a FRG7700 receiver linked to a Commodore 64 with a SWL/Airdisk card as decoder. My first digital experience :-)

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::: M51

We hardly see logs of M51 these days. Jim copied it on 3847 kHz at 1909 UTC on 1 April, so it is still active.

"NR43A 01 21:08:37 2003 = EUXPP EWZNR..."

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::: MX

On 6 April, ships from Russia's Pacific Fleet departed from Vladivostok for an exercise with the Indian navy in the Indian Ocean. The exercise will start in May. The Russian ships are the anti-submarine ships Marshal Shaposhnikov, Admiral Panteleyev and the tanker Vladimir Kolechitsky.

This coincides with an increased activity of the cluster beacons, just as it did during the last exercise. "C", "D" and "S" are active on all bands: 4, 5, 7, 8, 10, 13, 16 and 20 MHz. I haven't heard the 3 MHz cluster though. Not surprisingly, also the Far Eastern clusters were reported to be active. "F", "K" and "M" were heard on a number of frequencies.

"C" acted differently on Sunday 20 April. It sent "CK CK CK CK CK TNK TNK TNK TNK TNK" strings for 20 seconds and then resumed its "C" routine. This pattern was sent throughout the day. On Monday 21 April, I found "C" with "CK" and "CTN" strings. I received a log from Jim who heard "C" on an unusual frequency: 9116 at 2057 UTC on 14 April.

Franta reports activity from "P" in Kaliningrad on 3837 kHz at 0500 UTC and at 0700 UTC QRV on 4828 kHz with RTTY and CW traffic. Jim found the station on 3699.5 kHz at 2239 UTC.

"V" in Khiva was weak but readable on its usual frequency 3658 kHz. The chirpy St. Petersburg marker "L" can be heard on 3336.2 kHz and "R" from Izhevsk is on 5465.9 kHz.

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* OTHER MODES *

::: M42/X06

Frequency	UTC	link	mode / remarks
5072	1930		Mazielka calls
8077	1724	30011	MFSK-32/CROWD36
10552	1225	10020	MFSK-32/CROWD36
11057	1239		100.17Bd/500Hz, ASCII based ARQ-system,

			11Bit per character
12184	0620		AM/13-tone multitone system running at 7.5 Bd, 16Hz tone spacing, 5FGs to "018"
14447	0824	20010	MFSK-32/CROWD36
14882	0823	70006	MFSK-32/CROWD36
16028	1603		Mazielka calls
20197	0944	00169	MFSK-32/CROWD36

Thanks to Leif, Richard and Jochen for the logs.

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::: UNID NUMBERS STATIONS

An unid from Andy: 16087 kHz, 26 April, 0838-0849 UTC. Unid CW station sending 5FGs; cut zero's. Ideas???

104 104 104 532 532 97 97 = = 36868 36868 29089 29089 60034 60034 (...)
25428 25428 = = 532 532 97 97 00000

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::: G19 <tentative>

Maciej surprised us with a yet unknown German speaking numbers station. He copied it on 18 April at 1443 UTC on 5315 kHz USB with "732" + 5FGs read by a man in German. Unfortunately he did not hear the end of the transmission. The voice sounds like the old G19 voice. I have Maciej's sample on the N&O site: <http://home.luna.nl/~ary/5315.zip>

What we all want to know.... is this indeed a new version of G19? ENIGMA's Mike L. writes that the last logged G19 transmission dates back to Saturday 25 November 1995 at 2100 UTC on 5233 kHz. Jochen also recognises the voice as G19, so we hardly can wait till someone records a full transmission of this station.

Keep those reports coming guys!!!

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* MILITARY STATIONS *

::: CZECH MILITARY STATIONS

Both Fritz Nusser and I have been following these networks for a couple of years and our findings are about the same. We recently compiled our notes which resulted in the following article.

Comments, corrections and additional info are most welcome.

<<<<<>>>>

The well known network with net control stations CH8N, S8BD, U4NP is a Czech military network but its purpose is yet unknown. It is not a training network. Discipline is excellent, considerable efforts are put into operation of this network. Frequencies are always kept clear, intruders are distorted with endless series of VVV's. If propagation is worsening QRG is changed within minutes or the power is increased. Frequencies always are spot on, chirping transmissions are repaired within hours.

This morse network operates 24h/7days since at least 3 years. The net consists of one Net Control Station (NCS) and 3 stations in the form of a directed star. The NCS uses collective calls via CQ or individual calls. Stations send messages to the NCS but never to another station. Every station sends around 6 messages per day to the control stations. There is no significant change in the amount of traffic during weekends. There are two daytime/nighttime simplex frequencies in use that are backed up by two duplex frequencies for the NCS. During the month 3 sets of QRAs are being used:

NCS	stations	CQ
----	-----	----
S8BD	I4N5, AJV5, U5NR	C6CP
U4NP	F2TM, M5DT, V2LG	HRT6
CH8N	A8B5, JG8F, A4PK	TR2F

Messages mostly consist of 20 groups; very rarely 25 or even 30. It has always around 80 QTCs in 24h, about 28 until morning shift. 4 trigrams indicate a QRG change. Tuning and radio checks are always done within the first 5 min of shift. Net control changes at 2300 UTC and the nets all change when the morning shift starts.

Traffic flow QTCs:

NCS to stations: around 80/day
Stations to NCS: around 10/day each
Content of QTCs: encoded, all letters/all figures used
Flash messages : XXX from NCS to CQ, rarely

Format: 28 21 25 0720 = 178 TR2F = message =CH8N K
28 - message nr
21 - group count (always 20 groups)
25 - day
0720 - UTC+1 (summertime UTC+2)
178 TRF2 - addressee (CIC - commander in charge)

CH8N - sender

Samples:

TR2F TR2F TR2F DE CH8N CH8N QTC
28 21 25 0720 =
178 TR2F =
XDKFH EWKPT AXTIB KHMSI TKLUR GEGEM MENMI DNGSJ EETIL CFI XB CLRTK
PRAEO NXOGG DYXOW SRVBV OUXTY HZNAL QSEMI UNCIT OBDTE IPUMD = CH8N K

TR2F TR2F TR2F DE CH8N CH8N 497 497 59210 497 497 59210 K

Sometimes the stations transmit "XXX" messages and operational orders (trigrams). The "name" indicate the CIC + the nick name of the service like: Okrasa 147, Tellur 358, Kondor 510, Oslice 243, Koketa 846, Rozpuk 485, Nocleh 578, etc.

Flash "XXX" messages:

C6CP de S8BD XXX ROZPUK 485 ROZPUK 485 K
C6CP de S8BD XXX OMYL 601 OMYL 601 K
C6CP de S8BD XXX NOCLEH 578 NOCLEH 578 K
HRT6 de U4NP XXX NOCLEH 578 NOCLEH 578 K
C6CP de S8BD XXX HUMR 465 HUMR 465 k
HRT6 de U4NP XXX MOSAZ 432 MOSAZ 432 k
TR2F de CH8N XXX PERLA 517 PERLA 517 k
TR2F de CH8N XXX TAROK 854 TAROK 854 k

A trigram: "AJV5 de S8BD 904 008 102 171 409 138 657 003 k"

Operation schedule:

S8BD	3397//2611	1630-0730 UTC	until 10-2
	4462//????	0730-1630 UTC	until 10-2
	3158//????	1730-0700 UTC	1-3 until 3-3
	3337//3849	1730-0700 UTC	3-3 until 10-3
	4929//5239	0700-1730 UTC	1-3 until 3-3
			5-3 until 10-3
	4940//5239	1000-1730 UTC	4-3 (due to QRM BC)
	3808//2599	1800-0600 UTC	1-4 until 10-4
	4929//3808	0600-1800 UTC	1-4 until 10-4
U4NP	3273//2504	1630-0730 UTC	11-2 until 20-2
	4856//????	0730-1630 UTC	11-2 until 15-2
	4931//????	0730-1630 UTC	15-2 until 20-2
	3334//3843	1730-0700 UTC	11-3 until 20-3
	4993//5797	0700-1730 UTC	11-3 until 20-3
	3843//3388	1800-0600 UTC	11-4 until 20-4
	4751//3843	0600-1800 UTC	11-4 until 20-4

CH8N	3247//2731	1630-0730 UTC	21-2 until 28-2
	4632//5050	0730-1630 UTC	21-2 until 28-2
	3380//3803	1730-0700 UTC	21-3 until 22-3
	3232//3838	1730-0700 UTC	23-3 until 31-3
	????//4886	0700-1730 UTC	21-3 until 31-3
	3803//3232	1800-0600 UTC	21-4 until 30-4
	4886//3895	0600-1800 UTC	21-4 until 30-4

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* 2362//2852 kHz

Another Czech military station has occupied 2362//2852 kHz for some three years now. It is located near the Czech/Austrian border. Its purpose isn't exactly clear. Some say that it is a training station. That could be true. However, it transmits 24h a day which is not logical for a training station. The messages are slightly different from the above mentioned stations.

The station sends a CQ marker when there are no messages. A message consist of either 5LGs, 5FGs, or mixed 5LGs/5FGs. The station doesn't seem to have a schedule. I parked my receiver on 2362 kHz for 3 hours and noticed that during the first hour messages were transmitted at hh23, hh34, hh46 and nothing for the rest of the hour; in the next hour it sent 5 messages between hh28 and hh46; and the next hour there was only 1 message. Callsigns change daily.

A sister station transmits on 4820 kHz. It uses the same NCG as the station on 2362 kHz.

```

Mode      : MCW
Frequency : 2362//2852 kHz, but 2852 is not always on the air.
Header    : 64 20 09 2123 696 callsign
            64      - message nr
            20      - group count (always 20 groups)
            09      - day
            2123    - UTC+1
            696=ABCD - addressee (commander in charge)

```

* Samples:

```

ICJB ICJB ICJB ICJB ICJB ICJB
ICJB ICJB ICJB DE 01HN QTC
64 20 09 2123 696 = ICJB =
WMRTV MAHGR RBRT0 AFKGX QFVG NZEDR OBZWE WHVXC MEZMI GCIWF UVFPN
WOKJO EGCLP KXKGB BHVV KCIY WGEEN N EGMH XCYXK WEQBX = 01HN +

```

ICJB ICJB ICJB DE 01HN QTC
65 20 09 2134 696 = ICJB =
UEETV NRFTW 06813 EDRJO ZWENW 16343 WFTUD FPNOW 68549 XKGBH HWYVU
83495 XKMWE BXWRY 68353 GZTPI HOMQT 47389 PZJPQ RSVSO = 01HN +

ICJB ICJB ICJB DE 01HN QTC
66 20 09 2146 696 = ICJB =
63526 08143 26782 33439 87596 84984 66283 45626 56835 36879 7834T
47241 63514 85718 51294 84643 84614 64236 08158 40863 = 01HN +

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::: SLOVAK MILITARY

The Slovak Military station in Zilina sends occasional messages and occupies 3485 kHz with the following channel markers:

NVKL NVKL NVKL = HKVH HKVH HKVH +
FCQR FCQR FCQR = A7KG A7KG A7KG +
J7XD J7XD J7XD = D3QK D3QK D3QK +
QR2U QR2U QR2U = KP6F KP6F KP6F +

The station used 1732, 2851, 3381 and 4396 kHz in the past two years.
ENIGMA code: M62

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The Trencin station "SNJ3"

"SNJ3" is run by the Slovakian army, 2nd readiness net in Trencin. It used 3337, 3381, 4026, 5319 and 5333 during the past years. The 5 MHz frequencies are daytime freqs and the others are nighttime freqs.

GNJK is often called by SNJ3. These tactical callsigns reappear on a regular basis.

Notes:

Messages consist of 5FGs and 5LGs. Long zeros.

Samples:

GNJK GNJK GNJK DE SNJ3 SNJ3 QTC 364 +
GNJK GNJK GNJK DE SNJ3 SNJ3 QTC 52 21 5 1506 = 364 GNJK =
GNJK GNJK GNJK DE SNJ3 SNJ3 QTC 37 20 7 1128 = 616 GNJK =
= 51 28 7 1528 = 616 KRQB =

OP-chat like: =19047 K (repeat of a 5FGS)

Every now and then you can find SNJ3 radio checking with a quite a few other stations, often at 1948 UTC. A number of the others also do radio checks with each other which makes it a bit chaotic :-)
Here a sample:

```
1948  XVMC called by DIX2, TXXT, JST4, WNPA, JF9I, Y3KA, V9NB
2002  GNJK de SNJ3
2011  FIJE called by K6IN
2013  FIJE called by PELF
2017  FIJE called by DIX2 and TXXT
2019  GNJK de SNJ3 QTC 71 204 2105 = 057 5 LG
```

Alf noted a RTTY transmission that had the same signal strength and used the same addressee as SNJ3 used that day. Could this be the same station??? The RTTY station transmitted with 50bd/425. The messages consisted of 5LGs and 5FGs. A semicolon ";" seems to be the equivalent of the morse character "="

Samples:

```
7 50 5 1421; 364 G3JK; 5FGs; UMBK K
QRV K
R 7 14__ QTC K
8 50 5 1426; 364 G3JK; 5LGs; UMBK K
QRV K
R 8 1431 QTC K
9 50 5 1432; 364 G3JK; 5FGs; UMBK K
QRV K
R 9 1436 QTC K
10 50 5 1437; 364 G3JK; 5FGs; UMBK K
QRV K
10 1442; 646 COL 646 K
```

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::: POLISH MILITARY

Maciej and Andy, two Polish WUN members, supplied a lot of interesting Polish military logs this month.

Frequency Callsigns and remarks

```
-----
2248      Civil defense?
2309
2456      U3I (urszula 3 irena), C8U (celina 8 urszula)
2538
2574.5
```


2792	159, Nowela 42, Monitor 67
2814	Kontra72, Junak70, Tokar59
2827	QSY from 2792
3829.5	
4040	Gordon58
4097.6	
4114	
4502	XDT, CQ4, TJ7, RQ8, Z4M
4601	
5046	
6856	SN28 wkg SNWZ (Polish warship Kontradmiral Xawery Czernicki)
7849	SPWU: Polish warship Orzel
7872	ZOR, ATV Polish military, possibly in Kuwait. MARS-like comms
7937	LCR155 Polish Mil HQ Warsaw?
7937	MARS-like comms
11109	Czekaj 5. MARS-like comms

Polish warships have been using the following frequencies in 2002/2003:
6856, 7849, 9136, 11465, 12186 and 14682 kHz.

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::: RUSSIAN / CIS MILITARY STATIONS

Flash message copied on 18.1 kHz:

"XXX XXX RDL 66983 47202 KARATAL 3250 2051 K"

Freq.	QSY	callsigns
-----	-----	-----
3334		
3348		2XBP
3819	3348	GBBS, OJVZ
4447		6LLC, LGDI, CI9L, 9BTE, SQV2, MXD7, K4Y1
4456	3954	2LV9, FCWJ, VF3I, HZ90, ?KLN

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::: CHINESE MILITARY STATIONS

Australian dxer Eddy Waters heard one of the members of the "L9CC" family. He wonders if this is a training station. Well, I don't know Eddy. It could be, but due to the fact that there are many stations like the one that you logged and the fact that they change frequency very often, I don't think that it is a training station.

The station that Eddy heard was PNW9 working with its fixed counterpart GM3Z. The station changed its frequency every day and transmitted on 4831.9, 4824.5 and 4825.6 kHz. The transmission consisted mainly of

PNW9 calling GM3Z. The following is the text that was sent: "EGNW7
TNU3S EN9WE VU1II XTDT6 M9EGA GAI1E SG6EE DE GM3Z GM3Z DE PNW9 PNW9",
then the previous message was repeated over and over again.

"L9CC", the most famous of the bunch used 3555, 7061, 7065 and 7068 kHz
in April.

Here is a list of the stations that have been found so far. Note that
these are fixed couples, so L9CC always has CP17 as counterpart, etc.

```
"V CP17 CP17 CP17 DE L9CC L9CC"  
"V LA5S LA5S LA5S DE NH8T NH8T"  
"V MW3D MW3D MW3D DE 2SLC 2SCL"  
"V BFR7 BFR7 BFR7 DE 4XML 4XML"  
"V GM3Z GM3Z GM3Z DE PNW9 PNW9"  
"V IBEH IBEH IBEH DE L4FC L4FC"  
"V YELM YELM YELM DE FC1T FC1T"  
"V ABYZ ABYZ ABYZ DE 6PXJ 6PXJ"  
"V J9RZ J9RZ J9RZ DE 8NMQ 8NMQ"
```

Another Chinese station, "3SY", appeared on 8803 kHz. Igor logged it
and sent a complete transcript of the transmissions that consisted of
groups of 3 and 4-short-figure groups.

```
vvv cq cq cq de 3sy 3sy 3sy msg (R4)  
ga  
nr o481 ck 84 35 o4o1 o7oo = =  
tta 3u4 3a4 tau 773 ta7 773 tad 773 353  
35n 4ad nn3 445 3dt tta n34 tta nd4 tt5  
4dt 4d7 tan 773 tua 773 tuu 773 tu3 773  
353 4ad nn3 435 3du 4dt 4d6 tut 773 353  
5ad nn3 446 467 3dt ttu 4dt 4d6 tu4 773  
tu5 773 35u 4ad nn3 445 3dt tta n34 tta  
nd4 tt5 4dt 4d6 tu6 773 tu7 773 tun n34  
t33 773 356 4a7 nn3 445 3dt tta n34 tta  
nd4 tt5 4dt 4d6 ar ***  
msg agn msg agn ga  
nr o481 ck 84 35 o4o1 o7oo = =  
tta 3u4 3a4 tau 773 ta7 773 tad 773 353  
35n 4ad nn3 445 3dt tta n34 tta nd4 tt5  
4dt 4d7 tan 773 tua 773 tuu 773 tu3 773  
353 4ad nn3 435 3du 4dt 4d6 tut 773 353  
5ad nn3 446 467 3dt ttu 4dt 4d6 tu4 773  
tu5 773 35u 4ad nn3 445 3dt tta n34 tta  
nd4 tt5 4dt 4d6 tu6 773 tu7 773 tun n34  
t33 773 356 4a7 nn3 445 3dt tta n34 tta  
nd4 tt5 4dt 4d6 ar  
*** znn sk znn sk ar *
```

vvv xsv86 xsv86 xsv86 de 3sy 3sy 3sy msg (R3)
 ga msg ga
 nr 0661 ck 200 24 o4o1 o8o5
 1p = =
 5u6t 4n45 aun7 7td3 5na6 adnt u463 t657 453t 4u6d
 td65 t356 43n6 da3u dut7 t3u6 4an7 dnu4 a457 5a7n
 5dn6 3au6 d537 354n 47td ut4n tau4 35da 6u7a 67tn
 6un7 534u t75a 6nt3 57ad td47 dua3 6d43 n65u 4atn
 63an 47dn dta7 a46n u345 5d3u utd5 67t4 53au t6n7
 d64u n6at d75n 76na 34d5 36a7 d5u3 5tu4 a4t7 3unt
 3576 53td 76t4 d5a4 du3n antu nu5t 74au 76n3 6d4a
 63n7 a73d 5u6t u45d nu47 5n3a t6a3 tud4 d456 tn7a
 753n a34u tua3 467n ntu6 5t7d 65dn 34ua 6tda 547n
 74da a5un 7dnt tu35 na6t 5u7n 63dt 6d34 374u a465
 iii up = =
 47na 35t6 35u4 5n6a 56ta 746d 37tu 73ut dan5 d6nu
 td65 a5dt d73n 35n6 u453 nu34 64at t76d u74a n7au
 6t73 tdna an74 d64t u576 u5da 56n3 u3n7 4ut5 a34d
 6un7 567d d74a 56nt 36au a3n4 ta34 ut37 5d4u dnt5
 63ad 5ndt 67tn 457t 347d nua6 a35u u4n5 4u3t t6d7
 d643 tn4u au35 4357 nudt 6t7d 6da5 t4n3 67an au75
 47n6 75tu an4d 65n4 d34t a5du 3a67 7da3 u5nt 6ut3
 63t7 ud5t 75t4 356d an5u t67u 67au 4n3d dan4 4an3
 d65a 47n5 356d dna4 47nu 73t6 7u46 3utn a3ut da5t
 75t6 374u atu3 456d u4n5 n67d d6ta naud 7a53 3tn4
 ar *** znn sk znn sk *

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★ INTELLIGENCE PROFILE: POLAND ★

Background:

Poland is an ancient nation that was conceived around the middle of the 10th century. It's golden age occurred in the 16th century. During the following century, the strengthening of the gentry and internal disorders weakened the nation, until an agreement in 1772 between Russia, Prussia, and Austria partitioned Poland. Poland regained its independence in 1918 only to be overrun by Germany and the Soviet Union in World War II. In 1920 however, the Polish-Russian War stopped the Soviet expansion to the west at that time. The main battle was fought between 12 and 15 July near Warsaw. Lord Edgar V. d'Abernon called this battle "18th deciding battle in the history of world". After World War II Poland became a Soviet satellite country, but one that was comparatively tolerant and progressive. Labor turmoil in 1980 led to the formation of the independent trade union "Solidarity" that over time became a political force and by 1990 had

swept parliamentary elections and the presidency. A "shock therapy" program during the early 1990s enabled the country to transform its economy into one of the most robust in Central Europe. Poland joined the NATO alliance in 1999.

General:

Long name: Rzeczpospolita Polska / Republic of Poland
Short name: Polska / Poland
Capital: Warsaw

The country is divided in 16 provinces (województwa); Dolnoslaskie, Kujawsko-Pomorskie, Lodzkie, Lubelskie, Lubuskie, Malopolskie, Mazowieckie, Opolskie, Podkarpackie, Podlaskie, Pomorskie, Slaskie, Swietokrzyskie, Warminsko-Mazurskie, Wielkopolskie, Zachodniopomorskie

Military branches:

Army, Navy, Air and Air Defense Force

Intelligence:

Agencja Bezpieczeństwa Wewnętrznego
Biuro Bezpieczeństwa Narodowego
Rada Bezpieczeństwa Narodowego
Departament Zwierzchnictwa Prezydenta RP nad Siłami Zbrojnymi
Ministerstwo Spraw Wewnętrznych i Administracji
Wojskowe Służby Informacyjne

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::: GENERAL INFO

In the period 1944-1990 the main intelligence agencies were the now defunct SB - Służba Bezpieczeństwa (Security Service), UB - Urząd Bezpieczeństwa (Security Office) and the military agency WSW - Wojskowa Służba Wewnętrzna (Military Internal Service). Established in 1949 to replace pre war ZW now called again Zandarmeria Wojskowa (ZW) or in English "Military Police".

Until 1990 the internal security forces of the Ministry of Internal Affairs were charged with preserving public order and protecting the regime. The security forces included the riot police (ZOMO - Zmotoryzowane Odwody Milicji Obywatelskiej), the SB, and a large Citizens' Militia Voluntary Reserve (Ochotnicza Rezerwa Milicji Obywatelskiej).

The major reversal in policy in 1990, when Poland broke away from the

Warsaw Pact and Russia's influence, meant the end of these agencies. They were replaced by a number of new ones, like the UOP, BBN, RBN and the military WSI.

In May 1990, the UOP was created. It took over the structure of the former communist Security Office (UB). In May 2002 the parliament passed the new law on secret services. As a result the two most important secret service organizations UOP and WSI were to be dissolved. UOP disappeared and was replaced by the ABW and AW but the military WSI is reportedly still in place.

The oversight of the Polish Special Services is in the hands of three committees: the Sejm Commission for the Special Services (Sejm is the Lower Chamber of Parliament), the Committee for Special Services, and the Supreme Chamber of Control.

The WIR - Wspolnota Informacyjna Rzadu Government Information Community prepares reports on state security for the country's most important people. WIR's chairman is the chief of the AW.

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::: THE AGENCIES IN MORE DETAIL

* UOP - Urzad Ochrony Panstwa
Office for State Protection

In May 1990, the UOP was created. It took over the structure of the UB, the former communist Special Intelligence Service. The UOP was responsible for intelligence collection (domestic and foreign), counter intelligence, anti terrorism, combating illegal arms, drugs and technologies trafficking, and internal security functions. In May 2002 the parliament passed the new law on secret services. As a result the two most important secret service organizations UOP and WSI were to be dissolved. UOP dissolved and was replaced by the ABW and AW.

* ABW - Agencja Bezpieczenstwa Wewnetrznego
Internal Security Agency

The ABW is the Polish special service responsible for the matters of the protection of the state's internal security and its constitutional order. The Headquarters of the ABW, located in Warsaw, is composed of 16 units, including the following departments:

- Dept. of counterintelligence,
- Dept. of Counteracting Corruption,
- Dept. of Terrorism and Organised Crime,
- Dept. for the Protection of Classified Information,
- Dept. of Telematics Security,

as well as 5 Bureaus, including the Bureau of Record and Archives, and the Legal Bureau.

The structure of the ABW is composed of 15 regional branches, placed in the capitals of the provinces.

The tasks of the ABW, among other things, include: fighting threats to internal security of the state and its constitutional order as well as exposing the crimes of espionage, terrorism, breach of the state secret, corruption of persons holding public posts, and crimes aimed against the economic foundations of the state, crimes of proliferation of the ABC weapons and trade in drugs on an international scale. The ABW provides appropriate bodies with information that may be vital for the protection of the state's internal security and its constitutional order and performs the functions of the national security authority. It also has the investigatory powers analogous to those of the Police.

* AW - Agencja Wywiadu
Intelligence Agency

Responsible for Foreign Intelligence and in cooperation with WSI the AW counteracts any act of espionage or any crime directly threatening the state's defense. Besides that, the AW also works for the MON (Ministry of Defense - Ministerstwo Obrony Narodowej) directly.

* BBN - Biuro Bezpieczeństwa Narodowego
National Security Bureau

The National Security Bureau (NSB) was established in 1991. The status of the NSB is based on the article 11 of the General Obligation of Defending Country Act. Uniform text of the Act was published in the Dziennik Ustaw (Dz.U. nr 21, pos. 205 year 2002, with later changes).

The NSB is a state institution on external and internal security and defense field. The National Security Bureau fulfils tasks related to entitlements of the President of the Republic of Poland related to security and defense of the country, arising from constitutional entitlement of the President to perform supreme supervision over the armed forces and the obligation to safeguard the sovereignty and security of the state as well as the inviolability and integrity of its territory. NSB organizes and ensures carrying out tasks belonging to references of the National Security Council (as the NSC Secretariat) and the Consultative Committee of the Presidents of the Republic of Poland and Ukraine.

* RBN - Rada Bezpieczeństwa Narodowego
National Security Council

Responsibilities:

- Organizing meetings of the National Security Council;
- Preparing briefing materials for the President and the Head of the National Security Bureau (NSB), and assisting them in the decision-making regarding national security policy (including preparation of meeting agendas and discussion papers);
- Supervising the readiness of state institutions and other organizations to carry out assigned duties related to internal and external security. Also, formulating conclusions on their fulfilment of responsibilities for the National Security Council;
- Advising the President and the Head of the NSB on all aspects of Polish foreign and security policy with respect to all the countries of Western and Eastern Europe, the North Atlantic Treaty Organization (NATO), the Organization for Security and Cooperation in Europe (OSCE), the European Union (EU) and other organizations;
- Providing the President with systematic analyses of the current political and security situation in Poland and its neighbours;
- Analyzing political issues concerning Polish membership in NATO and preparing recommendations for the President on that issue;
- Supporting the work of the Consultative Committee of the Presidents of Poland and Ukraine;
- Participating in inter-departmental working groups in order to address vital policy issues in a coordinated and coherent manner.

The National Security Council Department consists of two sections:

- Analytical section for international affairs. This consists of specialists in various fields of international policy and foreign affairs and is responsible for continuous analyses of the current political and security situation in the region, global trends and developments;
- Analytical section for internal affairs. This consists of former and current employees of the headquarters of public institutions (Military and Civil Intelligence Services, Fire Department, Border Guard, Police, Armed Forces) and is responsible for systematic analysis of developments in state institutions and internal affairs.

* Departament Zwierzchnictwa Prezydenta RP nad Siłami Zbrojnymi
Department of the President's Supervisory over the Armed Forces

Responsibilities:

- Conducting a general overview of the Armed Forces, its organizational structures and the chain of command, as well as the welfare of the soldiers' families and legal regulations in this regard;
- Preparing analytical reports on the adaptation of the Polish Armed Forces to NATO standards and requirements, developments in the process of civil democratic control over the Armed Forces, legal adaptations

of the national defence system;

- Analysing governmental proposals that are addressed to the President of Poland concerning the use of the Polish Armed Forces abroad;
- Preparing reports and assessments of the process of defence education and military training in order to prepare the President and his ministers to participate in exercises and decision-making simulation games (focused on states of emergency, mobilization, defence readiness of the state);
- Providing information and formal documents for the President concerning nominations of top commanders in time of peace, and appointing the Supreme Commander for the time of war;
- Providing opinions on proposals of lists and justifications about persons of merit to be decorated by the President with medals and commemorative diplomas. One important activity -- overseen by the Department and respective MoD cells -- is the ceremony of vesting regiments (brigades) with banners;
- Monitoring of the defence and armaments industry, military equipment and special technology transfers;
- Preparing opinions to projects of normative acts and defence-related problems which are discussed at the meetings of the Government, governmental Committee of Defence, Committee of Classified Information and other bodies attended by representatives of presidential administration.

* MSWiA - Ministerstwo Spraw Wewnętrznych i Administracji
Ministry of Internal Affairs and Administration

The MSWiA oversees the General Command of the Police and the Border Guards.

Military intelligence:

* WSI - Wojska Służby Informacyjnej
Military Information Services

Responsible for military counter intelligence and security activities. It is therefore directly responsible for the protection of vital state information and is directly controlled and managed by the MON (Ministry of Defense - Ministerstwo Obrony Narodowej).

WSI investigates and counteracts threats to the state defense system and vital defense information. WSI cooperates closely with AWB and AW. WSI also holds control over arms, explosives, equipment, licences, etc.

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::: NUMBERS STATIONS

Numbers stations allegedly transmitting from Poland are Oblique (E11), Strich (G11), Presta (S11) and the Swedish Rhapsody (G02). I wonder if they are really coming from Poland, though. All stations have been around for many years and survived the Soviet days and the various reorganizations between 1990 and now. If they are coming from Poland, then who are the users you might ask.

Check N&O #11 for a profile of E11, G11 and S11. Frequencies can be found in the numbers database on the N&O website.

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Sources:

Official websites of the: UOP, BBN, ABW, Ministry of Internal Affairs and Administration.

PAP, FAS, Brassey's International Intelligence Yearbook 2002, CIA World Factbook 2002, Library of Congress Country Studies, DCAF conference paper "Transformation of the Polish Secret Services" by Andrzej Zybertowicz.

Thanks to Maciej for his translations and help with the spelling. Polish is a difficult language :-)

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★ INTELLIGENCE NEWS ★

A couple of interesting articles can be found on these websites:

http://www.meib.org/articles/0304_me1.htm

http://news.bbc.co.uk/2/hi/middle_east/2971907.stm

JMM found more on the BBC website. Here is a round-up.

::: RUSSIA

Source: BBC News Online.

A special exhibition in Moscow marks the 60th anniversary of Smersh's founding. The security organ, set up during World War II, was one of the most powerful and dreaded tools of the Soviet wartime regime. Its name, taken from the Russian Smert Shpionam, or Death to Spies, was said to have been coined by Stalin himself. Directly subordinated to the Soviet leader, it was used to infiltrate the Nazi secret services and to enforce order and loyalty on the war front.

The exhibition includes a number of interesting spy related gadgets. One display is devoted to the history of "funkspiel", or radio games with the German counter-intelligence, which helped Smersh track down saboteurs.

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::: JAPAN

Source: BBC News Online

As mentioned last month, Japan has launched its first ever spy satellites. The country buys commercial satellite photos from the US and France but wanted intelligence independence. North Korea's launch of a Taepodong-1 ballistic missile over Japan in 1998, however, served as a wake-up call.

"It really shocked the Japanese. They realised that they've got to wake up and not be 100% reliant on the US," Victor Cha, professor of government and Asian studies at Washington DC's Georgetown University told BBC News Online.

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::: PERU

Source: BBC News Online

The former Peruvian intelligence chief Vladimiro Montesinos - a close aide of the disgraced former President Alberto Fujimori - has been sentenced to five years imprisonment for corruption. He is already serving a nine-year term for illegally taking control of Peru's intelligence agency, and is due to stand trial on more than 50 other charges.

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::: USA / N.KOREA

Source: BBC News Online

The US Air Force has resumed reconnaissance flights in international airspace off North Korea, 11 days after a US plane was intercepted by North Korean fighters jets.

The missions were suspended after the 2 March incident when four North Korean planes intercepted an unarmed and unescorted RC-135S aircraft over the Sea of Japan, about 150 miles (240 kilometres) off North Korea's coast.

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::: UKRAINE

Source: Pravda

The Ukrainian Security Service has posted several documents about the meltdown at the Chernobyl nuclear-power station (among other things) on its webpage on the threshold of the commemoration of the 17th anniversary of the tragedy. One hundred and twenty-one documents in total have been posted.

The documents show that problems started at the Chernobyl nuclear-power plant long before the explosion at the fourth power-generating unit. In addition, the KGB had informed the Party leadership of mistakes that had taken place during the construction of the plant. In particular, in 1984, the KGB came to the conclusion that the third and the fourth units of the Chernobyl nuclear plant had serious construction flaws, which had caused cracks in the block domes. Secret reports mention an emergency situation at the plant in 1982 as well.

The majority of these documents on the site of the Ukrainian Security Service were not exposed to the public eye during the Soviet era.

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★ LOGS SECTION ★

It's a Bob/Gallus/Mark show this month. Thanks guys, and of course many thanks to the 27 other dxers who made us happy with their logs. Ok, the rest of you, don't hesitate to send us your findings next month!

2680	M22	4XZ. Israeli navy Haifa. Marker "vvv de 4XZ== CW 29-04-03 (DW)
3150.0	E10	PCD2//6498 USB 13-04-03 Sun 0330 (BS4)
3244.0	M08a	(in progress) CW 05-04-03 Sat 1000 (MS)
3335.7	MX	"L" channel marker St Petersburg weak signal CW 08-04-03 Tue 0019 (LC2)
3336.2	MX	Channel marker "L", St. Petersburg CW 21-04-03 Mon 2133 (AB)
3557	E10	MIW 61Z18Z82Z071100 AM 06-04-03 Sun 2208 (TI26)
3640.0	E10	SYN2//6370 USB 04-04-03 Fri 0045 (BS4)
3640.0	E10	SYN2//6370 USB 11-04-03 Fri 0245 (BS4)
3640.0	E10	SYN2//6370 USB 14-04-03 Mon 0145 (BS4)
3640.0	E10	SYN2//6370 USB 25-04-03 Fri 0045 (BS4)
3699.5	MX	Channel marker "P", Kaliningrad + 5FGs CW 23-04-03 2239 (RGA)
3837	MX	Channel marker "P", Kaliningrad CW 29-03-03 Sat 0500 (OK1HH)
3840.0	E10	YHF in tfc USB 02-04-03 Wed 0005 (BS4)
3840.0	E10	YHF 168 HDRGW , correct group count USB 04-04-03 Fri 0005 (BS4)
3840.0	E10	YHF in tfc//4560 USB 13-04-03 Sun 0330 (BS4)
3926.0	M08a	ID 71611 75213 46211 CW 06-04-03 Sun 1000 (MS)

3926.0 M08a ID 75642 26073 21772 CW 13-04-03 Sun 1000 (MS)
3926.0 M08a ID 93762 97672 33812 CW 20-04-03 Sun 1000 (MS)
4015.0 E10 VLB, very weak//5170, 6912 USB 04-04-03 Fri 0045 (BS4)
4015.0 E10 VLB2//5170, 6912 USB 11-04-03 Fri 0245 (BS4)
4015.0 E10 VLB2//5170, 6912 USB 14-04-03 Mon 0145 (BS4)
4015.0 E10 VLB2//5170, 6912 AM 25-04-03 Fri 0045 (BS4)
4028.0 V02a In prog; M8a heard in prog, but did not find its freq.
AM 04-04-03 Fri 0504 (BM)
4030 M13B 831/0 CW 27-04-03 Sun 2100 (HFD)
4165.0 E10 CI02//5230 USB 04-04-03 Fri 0045 (BS4)
4165.0 E10 CI02//5230 USB 11-04-03 Fri 0245 (BS4)
4165.0 E10 CI02//5230 USB 25-04-03 Fri 0045 (BS4)
4165.0 E10 CI02//5230 USB 30-04-03 Wed 0245 (BS4)
4173.0 M08a ID 83641 92371 56922 CW 16-04-03 Wed 1100 (MS)
4196.0 E10 CI02//5230 USB 14-04-03 Mon 0145 (BS4)
4270.0 E10 PCD USB 03-04-03 Thu 0300 (BS4)
4270.0 E10 PCD 7 STSWA USB 24-04-03 Thu 0030 (GG)
4270.0 E10 PCD 2 msgs : 12 JXDPM/12 IZXHY USB 24-04-03 Thu 2330
(GG)
4270.0 E10 PCD 21 FXXRD USB 25-04-03 Fri 0000 (GG)
4270.0 E10 PCD 7 STSWA USB 25-04-03 Fri 0030 (GG)
4270.0 E10 PCD 19 IWAUJ USB 25-04-03 Fri 0230 (GG)
4270.0 E10 PCD2 USB 25-04-03 Fri 0300 (GG)
4270.0 E10 in progress USB 25-04-03 Fri 2336 (GG)
4270.0 E10 PCD 14 ABAAY USB 26-04-03 Sat 0000 (GG)
4360.0 E10 KPA2//5339 USB 03-04-03 Thu 0215 (BS4)
4360.0 E10 KPA2 USB 05-04-03 Sat 0215 (BS4)
4360.0 E10 KPA2//5339 USB 14-04-03 Mon 0115 (BS4)
4360.0 E10 KPA2 USB 24-04-03 Thu 2319 (GG)
4360.0 E10 KPA2 USB 30-04-03 Wed 0215 (BS4)
4461.0 E10 FTJ 41 MLKCM USB 03-04-03 Thu 0300 (BS4)
4461.0 E10 FTJ in tfc USB 10-04-03 Thu 2330 (BS4)
4461.0 E10 FTJ 118 JPQDP USB 25-04-03 Fri 0021 (JS3)
4461.0 E10 FTJ2 USB 25-04-03 Fri 2300 (GG)
4461.0 E10 in progress USB 25-04-03 Fri 2336 (GG)
4461.0 E10 FTJ 17 SZ0ED USB 29-04-03 Tue 0300 (BS4)
4461.0 E10 FTJ 17 SZ0ED USB 30-04-03 Wed 0300 (BS4)
4478.0 M08a (in progress) CW 05-04-03 Sat 1100 (MS)
4479.0 V02a Lots of static. AM 16-04-03 Wed 0321 (C0)
4479.0 V02a Very weak signal. AM 18-04-03 Fri 0410 (C0)
4485.0 M10 555x3 013x3 19 976x3 28 (R5) (// freq on 6768m) CW
04-04-03 Fri 0210 (MS)
4485.0 M10 555x3 013x3 19 976x3 28 (R5) (// freq on 6758m) CW
05-04-03 Sat 0210 (MS)
4485.0 M10 555x3 164x3 35 219x3 40 (R5) (// freq on 6758m) CW
20-04-03 Sun 0210 (MS)
4485.0 M10 (in progress - probably 0400z start time - not // of
6763m at 0410) CW 20-04-03 Sun 0412 (MS)

4485.0 M10 555x3 286x3 39 787x3 31 (R5) CW 27-04-03 Sun 0400 (MS)
 4507.0 V02a (in progress YL/SS) CW 05-04-03 Sat 1100 (MS)
 4557.7 MX Cluster beacon "D", Odessa CW 20-04-03 Sat 2205 (AB)
 4557.9 MX Cluster beacon "S", Arkhangelsk CW 20-04-03 Sat 2205
 4558 MX Cluster beacon "C", Moscow CW 20-04-03 Sat 2205 (AB)
 4560 E10 YHF 1 AM 07-04-03 Mon 2102 (AB)
 4560.0 E10 YHF2//7918 USB 03-04-03 Thu 0230 (BS4)
 4560.0 E10 YHF 39 IVEHI USB 03-04-03 Thu 0330 (GG)
 4560.0 E10 YHF 39 IVEHI USB 04-04-03 Fri 0330 (GG)
 4560.0 E10 YHF2//7918 USB 05-04-03 Sat 0230 (BS4)
 4560.0 E10 YHF 39 IVEHI USB 05-04-03 Sat 0330 (GG)
 4560.0 E10 YHF 39 IVEHI USB 06-04-03 Sun 0330 (GG)
 4560.0 E10 YHF 16 ?CRXY USB 07-04-03 Mon 0330 (GG)
 4560.0 E10 YHF 16 ??RX? USB 10-04-03 Thu 0330 (GG)
 4560.0 E10 YHF 16 ?CRXD USB 12-04-03 Sat 0330 (GG)
 4560.0 E10 YHF USB 13-04-03 Sun 0330 (GG)
 4560.0 E10 YHF in tfc//3840 USB 13-04-03 Sun 0330 (BS4)
 4560.0 E10 YHF 16 T???? USB 15-04-03 Tue 0330 (GG)
 4560.0 E10 YHF USB 17-04-03 Thu 0330 (GG)
 4560.0 E10 YHF USB 17-04-03 Thu 0330 (GG)
 4560.0 E10 YHF 16 ????? USB 18-04-03 Fri 0330 (GG)
 4560.0 E10 YHF USB 19-04-03 Sat 0330 (GG)
 4560.0 E10 YHF2 USB 25-04-03 Fri 2130 (GG)
 4560.0 E10 YHF2//7918 USB 30-04-03 Wed 0230 (BS4)
 4625.0 S28 the buzzer AM 12-04-03 Sat 2219 (AF)
 4828 MX Channel marker "P", Kaliningrad + RTTY msg + CW 5FGs
 CW/RTTY 29-03-03 Sat 0700 (OK1HH)
 4879.7 E10 ULX 35 XXHWS USB 25-04-03 Fri 2300 (GG)
 4880.0 E10 ULX 62 BUIVF USB 02-04-03 Wed 0030 (BS4)
 4880.0 E10 ULX 91 LWWVU USB 03-04-03 Thu 0230 (BS4)
 4880.0 E10 ULX 60 GCPGA USB 04-04-03 Fri 0030 (BS4)
 4880.0 E10 ULX 9 QYLHT USB 05-04-03 Sat 0200 (BS4)
 4880.0 E10 ULX 9 QYLHT USB 06-04-03 Sun 0200 (BS4)
 4880.0 E10 ULX USB 10-04-03 Thu 2230 (BS4)
 4880.0 E10 ULX2 AM 13-04-03 Sun 0330 (BS4)
 4880.0 E10 ULX2 USB 13-04-03 Sun 2230 (BS4)
 4880.0 E10 ULX2 USB 14-04-03 Mon 0200 (BS4)
 4880.0 E10 ULX USB 17-04-03 Thu 0200 (BS4)
 4880.0 E10 ULX 40 CBSHK USB 21-04-03 Mon 2300 (GG)
 4880.0 E10 ULX 81 ZMMQO USB 22-04-03 Tue 0230 (BS4)
 4880.0 E10 ULX 122 PPALN USB 23-04-03 Wed 0200 (BS4)
 4880.0 E10 ULX 40 CBSHK USB 23-04-03 Wed 2300 (GG)
 4880.0 E10 ULX 122 PPALN USB 24-04-03 Thu 0200 (BS4)
 4880.0 E10 ULX in tfc USB 24-04-03 Thu 0230 (BS4)
 4880.0 E10 ULX2 USB 25-04-03 Fri 0330 (BS4)
 4880.0 E10 ULX USB 26-04-03 Sat 0030 (GG)
 4880.0 E10 ULX USB 26-04-03 Sat 0230 (GG)
 4880.0 E10 ULX USB 27-04-03 Sun 0230 (GG)

4880.0 E10 ULX2 USB 28-04-03 Mon 0200 (BS4)
4880.0 E10 ULX2 USB 29-04-03 Tue 0200 (BS4)
4880.0 E10 ULX in tfc USB 30-04-03 Wed 0230 (BS4)
5072 X06 Mazielka calls AM 24-04-03 1930 (RiN)
5091.0 E10 JSR in tfc USB 10-04-03 Thu 2230 (BS4)
5091.0 E10 JSR 11 JLWEW same as msg first heard 29 March USB
13-04-03 Sun 0330 (BS4)
5091.0 E10 JSR 36 NSOWN USB 13-04-03 Sun 2230 (BS4)
5091.0 E10 JSR in tfc USB 25-04-03 Fri 0330 (BS4)
5091.0 E10 JSR 43 EQLRN USB 26-04-03 Sat 2230 (GG)
5153.7 MX Cluster beacon "D", Odessa CW 18-04-03 Tue 1954 (AB)
5153.9 MX Cluster beacon "S", Arkhangelsk CW 18-04-03 Tue 1954
5154 MX Cluster beacon "C", Moscow CW 18-04-03 Tue 1954 (AB)
5154.3 MX Cluster beacon "K" CW 21-04-03 1100 (AH)
5154.4 MX Cluster beacon "M" CW 21-04-03 1100 (AH)
5170.0 E10 VLB, no suffix and down by 0050z//4015, 6912 USB
04-04-03 Fri 0045 (BS4)
5170.0 E10 VLB2//4015, 6912 USB 11-04-03 Fri 0245 (BS4)
5170.0 E10 VLB2//4015,6912 USB 14-04-03 Mon 0145 (BS4)
5170.0 E10 VLB2//4015, 6912 USB 25-04-03 Fri 0045 (BS4)
5170.0 E10 VLB2//6912 USB 30-04-03 Wed 0245 (BS4)
5210 G04 57231 42032 34 gr AM 03-04-03 Thu 2000 (HFD)
5210.0 G04 AM 03-04-03 Thu 0020 (JS3)
5225 M13 378 CW 05-04-03 Sat 2100 (HFD)
5230.0 E10 CI02//4165 USB 04-04-03 Fri 0045 (BS4)
5230.0 E10 CI02//4165 USB 11-04-03 Fri 0245 (BS4)
5230.0 E10 CI02//4196 USB 14-04-03 Mon 0145 (BS4)
5230.0 E10 CI02//4165 USB 25-04-03 Fri 0045 (BS4)
5230.0 E10 CI02//4165 USB 30-04-03 Wed 0245 (BS4)
5301 S17C 98036 //8190 AM 05-04-03 Sat 1250 (HFD)
5301 S17C 68028 //8190 AM 12-04-03 Sat 1250 (HFD)
5301 S17C 76023 //8190 AM 19-04-03 Sat 1250 (HFD)
5301 S17C 87034 //8190 AM 20-04-03 Sun 1250 (HFD)
5301 S17C 91044 //8190 AM 26-04-03 Sat 1250 (HFD)
5301 S17C 84031 //8190 AM 27-04-03 Sun 1250 (HFD)
5301 S17C 76045 //8190 AM 29-04-03 Tue 1250 (HFD)
5310 G04 57231 42032 34 gr AM 03-04-03 Thu 2030 (HFD)
5310.0 G04 AM 03-04-03 Thu 2030 (JS3)
5339.0 E10 KPA2//4360 USB 03-04-03 Thu 0215 (BS4)
5339.0 E10 KPA2//4360 USB 14-04-03 Mon 0115 (BS4)
5339.0 E10 KPA2//4390 USB 25-04-03 Fri 0215 (BS4)
5435.0 E10 ART 46 FBTTT//6986 USB 01-04-03 Tue 2300 (BS4)
5435.0 E10 ART 82 MCZSA USB 01-04-03 Tue 2330 (BS4)
5435.0 E10 ART2 USB 02-04-03 Wed 0005 (BS4)
5435.0 E10 ART USB 03-04-03 Thu 0030 (GG)
5435.0 E10 ART 13 VVXAI USB 03-04-03 Thu 2330 (GG)
5435.0 E10 ART2 USB 04-04-03 Fri 0005 (BS4)
5435.0 E10 ART 41 HBLHZ USB 04-04-03 Fri 0030 (GG)

5435.0 E10 ART2 USB 04-04-03 Fri 0130 (BS4)
5435.0 E10 ART 10 IUWPJ USB 05-04-03 Sat 2330 (GG)
5435.0 E10 ART2 USB 06-04-03 Sun 0200 (BS4)
5435.0 E10 ART 69 BCXCD USB 06-04-03 Sun 2230 (GG)
5435.0 E10 ART USB 06-04-03 Sun 2330 (GG)
5435.0 E10 ART 69 BCXCD USB 07-04-03 Mon 2230 (GG)
5435.0 E10 ART USB 07-04-03 Mon 2330 (GG)
5435.0 E10 ART 69 BCXCD USB 09-04-03 Wed 2230 (GG)
5435.0 E10 ART USB 09-04-03 Wed 2330 (GG)
5435.0 E10 ART USB 10-04-03 Thu 2200 (BS4)
5435.0 E10 ART 69 BCXCD USB 10-04-03 Thu 2230 (GG)
5435.0 E10 ART in tfc USB 10-04-03 Thu 2230 (BS4)
5435.0 E10 ART USB 10-04-03 Thu 2330 (GG)
5435.0 E10 ART 14 BKQSR USB 10-04-03 Thu 2330 (BS4)
5435.0 E10 ART 69 BCXCD USB 11-04-03 Fri 2230 (GG)
5435.0 E10 ART USB 11-04-03 Fri 2330 (GG)
5435.0 E10 ART 69 BCXCD USB 12-04-03 Sat 2230 (GG)
5435.0 E10 ART USB 12-04-03 Sat 2330 (GG)
5435.0 E10 ART 93 XTFFU heavy o/r, msg id by later repeat USB
13-04-03 Sun 2200 (BS4)
5435.0 E10 ART in tfc USB 13-04-03 Sun 2230 (BS4)
5435.0 E10 ART in tfc USB 14-04-03 Mon 0100 (BS4)
5435.0 E10 ART2 USB 14-04-03 Mon 0130 (BS4)
5435.0 E10 ART 93 XTFFU rpt of msg 2200z 1304 5435k USB 14-04-03
Mon 0200 (BS4)
5435.0 E10 ART 79 OETBE USB 14-04-03 Mon 2330 (GG)
5435.0 E10 ART 20 OISPB USB 16-04-03 Wed 2330 (GG)
5435.0 E10 ART 93 XTFFU, msg first sent this sked on 04 14 USB
17-04-03 Thu 0100 (BS4)
5435.0 E10 ART 93 XTFFU, same msg now at 0100z, 0200z, 2200z USB
17-04-03 Thu 0200 (BS4)
5435.0 E10 ART 20 OISPB USB 17-04-03 Thu 2330 (GG)
5435.0 E10 ART 93 FAVWZ USB 18-04-03 Fri 0100 (BS4)
5435.0 E10 ART 93 FAVWZ Rpt of msg sent 0100z 04 18 5435k USB
18-04-03 Fri 0200 (BS4)
5435.0 E10 ART 20 OISBP USB 18-04-03 Fri 2330 (GG)
5435.0 E10 ART 93 FAVWZ USB 23-04-03 Wed 0100 (BS4)
5435.0 E10 ART 93 FAVWZ USB 23-04-03 Wed 0200 (BS4)
5435.0 E10 ART 23 YCCRA USB 24-04-03 Thu 0000 (GG)
5435.0 E10 ART 93 FAVWZ USB 24-04-03 Thu 0100 (BS4)
5435.0 E10 ART 93 FAVWZ USB 24-04-03 Thu 0200 (BS4)
5435.0 E10 ART 93 FAVWZ USB 25-04-03 Fri 0100 (BS4)
5435.0 E10 ART USB 25-04-03 Fri 2130 (GG)
5435.0 E10 ART USB 25-04-03 Fri 2300 (GG)
5435.0 E10 ART USB 26-04-03 Sat 0000 (GG)
5435.0 E10 ART 110 TPVXG//6986 USB 26-04-03 Sat 0400 (BS4)
5435.0 E10 ART 57 HNDQL USB 26-04-03 Sat 2300 (GG)
5435.0 E10 ART 93 FAVWZ USB 28-04-03 Mon 0100 (BS4)

5435.0 E10 ART 93 FAVWZ USB 28-04-03 Mon 0200 (BS4)
5435.0 E10 ART 80 PHZJZ, ?? ????? USB 29-04-03 Tue 0130 (BS4)
5435.0 E10 ART 93 FAVWZ USB 29-04-03 Tue 0200 (BS4)
5435.0 E10 ULX 20 JLFST, normally rf for ART!! USB 30-04-03 Wed 0200 (BS4)
5437.0 E10 ART 2 msgs : 23 JFJTK/10 LETED USB 15-04-03 Tue 0030 (GG)
5437.0 E10 ART 60 DHLMS USB 17-04-03 Thu 0030 (GG)
5437.0 E10 ART 60 DHLMS USB 18-04-03 Fri 0030 (GG)
5437.0 E10 ART 60 DHLMS USB 19-04-03 Sat 0030 (GG)
5437.0 E10 ART 54 RZFAG USB 22-04-03 Tue 2000 (EF)
5465.9 MX Channel marker "R" Izhhevsk CW 26-04-03 1923 (McB)
5473 S10D 555:289-36/34= 86215 //6894 AM 05-04-03 Sat 2130
5474 M13 411 CW 05-04-03 Sat 2030 (HFD)
5474.0 M13 411 (R5) BT 248 2. BT (signal very weak) CW 20-04-03 Sun 0430 (MS)
5620 M29 35/35:22 0800= 83157 CW 22-04-03 Tue 0600 (HFD)
5620 M29 34/35:22 0800= 83157 CW 23-04-03 Wed 1200 (HFD)
5720 M29 34/35:22 0800= 83157 CW 22-04-03 Tue 0630 (HFD)
5720 M29 35/35:22 0800= 83157 CW 23-04-03 Wed 1230 (HFD)
5800.0 V02a In prog; sked back after long hiatus. Seasonal? AM 14-04-03 Mon 0317 (BM)
5820 E10 YHF 1 AM 07-04-03 Mon 2102 (AB)
5820.0 E10 YHF USB 10-04-03 Thu 2200 (BS4)
5820.0 E10 YHF USB 13-04-03 Sun 2200 (BS4)
5820.0 E10 YHF 89 YSCGB AM 18-04-03 Fri 2130 (JS3)
5820.0 E10 YHF2 USB 24-04-03 Thu 0200 (GG)
5820.0 E10 YHF2 USB 25-04-03 Fri 2130 (GG)
5820.0 E10 YHF 14 SNYPX USB 26-04-03 Sat 2100 (GG)
5820.0 E10 YHF 89 YSCGB USB 26-04-03 Sat 2200 (GG)
5820.0 E10 YHF2 USB 27-04-03 Sun 0200 (GG)
5820.0 E10 YHF in tfc//7918 USB 29-04-03 Tue 0130 (BS4)
5820.0 E10 YHF2 USB 30-04-03 Wed 0200 (BS4)
5830.0 E10 YHF2//7918 USB 25-04-03 Fri 0230 (BS4)
5830.0 E10 in progress USB 25-04-03 Fri 2208 (GG)
5883.0 V02a AM 06-04-03 Sun 0500 (HT)
6270.0 E10 ULX 64 ITBDP//7760 USB 04-04-03 Fri 0100 (BS4)
6270.0 E10 ULX2 USB 10-04-03 Thu 2200 (BS4)
6270.0 E10 ULX2 USB 13-04-03 Sun 2200 (BS4)
6270.0 E10 ULX 53 TPJNT//7760 USB 18-04-03 Fri 0100 (BS4)
6270.0 E10 ULX 40 CBSHK USB 21-04-03 Mon 2300 (GG)
6270.0 E10 ULX 40 CBSHK USB 23-04-03 Wed 2300 (GG)
6270.0 E10 ULX 53 TPJNT//7760 USB 25-04-03 Fri 0100 (BS4)
6270.0 E10 ULX 35 XXHWS USB 25-04-03 Fri 2300 (GG)
6270.0 E10 ULX 66 WORGX USB 26-04-03 Sat 2030 (GG)
6370.0 E10 SYN2//3640 USB 04-04-03 Fri 0045 (BS4)
6370.0 E10 SYN2//3640 USB 11-04-03 Fri 0245 (BS4)
6370.0 E10 SYN2//3640 USB 14-04-03 Mon 0145 (BS4)

6370.0 E10 SYN2//3640 USB 25-04-03 Fri 0045 (BS4)
6370.0 E10 SYN2 USB 30-04-03 Wed 0245 (BS4)
6498.0 E10 PCD in tfc USB 04-04-03 Fri 0030 (BS4)
6498.0 E10 PCD2//3150 USB 13-04-03 Sun 0330 (BS4)
6758.0 M10 555x3 013x3 19 976x3 28 (R5) (// freq on 4485m) CW
04-04-03 Fri 0210 (MS)
6758.0 M10 555x3 013x3 19 976x3 28 (R5) (// freq on 4485m) CW
05-04-03 Sat 0210 (MS)
6758.0 M10 555x3 013x3 19 976x3 28 (R5) CW 06-04-03 Sun 0210 (MS)
6758.0 M10 555x3 824x3 37 936x3 24 (R5) (very weak signal!!!) CW
13-04-03 Sun 0210 (MS)
6758.0 M10 555x3 824x3 37 936x3 24 (R5) CW 16-04-03 Wed 0210 (MS)
6758.0 M10 555x3 164x3 35 219x3 40 (R5) (// freq on 4485m) CW
20-04-03 Sun 0210 (MS)
6758.0 M10 555x3 200x3 18 946x3 31 (R5) CW 26-04-03 Sat 0210 (MS)
6758.0 M10 555x3 200x3 18 946x3 31 (R5) CW 27-04-03 Sun 0210 (MS)
6763.0 M10 555x3 013x3 19 976x3 28 (R5) CW 06-04-03 Sun 0410 (MS)
6763.0 M10 444x3 164x3 35 219x3 40 (R5) (NOTE: precedence change
but addressee CW 20-04-03 Sun 0410 (MS)
6763.0 M10 444x3 200x3 18 946x3 31 (R5) CW 27-04-03 Sun 0410 (MS)
6840.0 E10 EZI 79 LRYXX USB 01-04-03 Tue 2330 (BS4)
6840.0 E10 EZI 91 ORDCA, 39 AISHT//9130 USB 03-04-03 Thu 0230
(BS4)
6840.0 E10 EZI2//9130, 11565 AM 04-04-03 Fri 0100 (BS4)
6840.0 E10 EZI 91 WKIYP, 26 OLCYP USB 10-04-03 Thu 2200 (BS4)
6840.0 E10 EZI 79 LRYXX USB 10-04-03 Thu 2330 (BS4)
6840.0 E10 EZI 91 WKIYP, 26 OLCYP//9130 rpt of msgs 2000z 0413
9130k, 13533k USB 13-04-03 Sun 2200 (BS4)
6840.0 E10 EZI 21 FICSF//9130 rpt of msg 2130z 1304 9130k USB
14-04-03 Mon 0130 (BS4)
6840.0 E10 EZI2 USB 17-04-03 Thu 0100 (BS4)
6840.0 E10 EZI 85 GMFLS/9130 AM 17-04-03 Thu 2030 (JS3)
6840.0 E10 EZI2//11565 USB 18-04-03 Fri 0100 (BS4)
6840.0 E10 EZI 60 SOFIG//9130 USB 22-04-03 Tue 0230 (BS4)
6840.0 E10 EZI2//9130 USB 23-04-03 Wed 0100 (BS4)
6840.0 E10 EZI 60 SOFIG//9130 USB 24-04-03 Thu 0230 (BS4)
6840.0 E10 EZI2//9130 USB 25-04-03 Fri 0100 (BS4)
6840.0 E10 EZI 10 DFUFN USB 25-04-03 Fri 2130 (GG)
6840.0 E10 in progress 92 NPWQS USB 25-04-03 Fri 2208 (GG)
6840.0 E10 in progress USB 25-04-03 Fri 2336 (GG)
6840.0 E10 EZI 53 FAADD//9130 USB 29-04-03 Tue 0130 (BS4)
6840.0 E10 EZI 60 SOFIG//9130 USB 30-04-03 Wed 0230 (BS4)
6894 S10D 555:289-36/34= 86215 //5473 AM 05-04-03 Sat 2130
6912.0 E10 VLB2 AM 02-04-03 Wed 0020 (JS3)
6912.0 E10 VLB2 AM 02-04-03 Wed 2045 (JS3)
6912.0 E10 VLB, no suffix and down by 0050z//4015, 5170 USB
04-04-03 Fri 0045 (BS4)
6912.0 E10 VLB2//4015, 5170 USB 11-04-03 Fri 0245 (BS4)

6912.0 E10 VLB2//4015, 5170 USB 14-04-03 Mon 0145 (BS4)
6912.0 E10 VLB2//4015, 5170 USB 25-04-03 Fri 0045 (BS4)
6912.0 E10 VLB2//5170 USB 30-04-03 Wed 0245 (BS4)
6986.0 E10 ART 46 FBTTT//5435 USB 01-04-03 Tue 2300 (BS4)
6986.0 E10 ART USB 25-04-03 Fri 2300 (GG)
6986.0 E10 ART 110 TPVXG//5435 USB 26-04-03 Sat 0400 (BS4)
7038.7 MX Cluster beacon "D", Odessa CW 18-04-03 Tue 1954 (AB)
7038.7 MX Cluster beacon "D", Odessa CW 20-04-03 0140 (AJP)
7038.9 MX Cluster beacon "S", Arkhangel'sk CW 18-04-03 Tue 1954
7039 MC Cluster beacon "C" CW 20-04-03 0141 (AJP)
7039 MX Cluster beacon "C", Moscow CW 18-04-03 Tue 1954 (AB)
7039.2 MX Cluster beacon "F" CW 21-04-03 1100 (AH)
7039.4 MX Cluster beacon "M" CW 21-04-03 1100 (AH)
7065 M87 in progress CW 15-04-03 1430 (IB)
7358.0 E10 FTJ in tfc USB 13-04-03 Sun 2100 (BS4)
7358.0 E10 FTJ2 USB 26-04-03 Sat 0400 (BS4)
7445 E10 MIW 63 AM 02-04-03 Wed 2131 (TI26)
7445.0 E10 MIW2 USB 03-04-03 Thu 0215 (BS4)
7445.0 E10 MIW2 USB 05-04-03 Sat 0215 (BS4)
7445.0 E10 MIW2 USB 14-04-03 Mon 0115 (BS4)
7445.0 E10 MIW2 USB 25-04-03 Fri 0215 (BS4)
7445.0 E10 MIW2 USB 30-04-03 Wed 0215 (BS4)
7735 M13 417 CW 13-04-03 Sun 1900 (HFD)
7735 M13 417 CW 27-04-03 Sun 1900 (HFD)
7735 M13 417 CW 28-04-03 Mon 1900 (HFD)
7746.0 S10 in progress very strong signal AM 09-04-03 Wed 0018
7760.0 E10 ULX 64 ITBDP//6270 USB 04-04-03 Fri 0100 (BS4)
7760.0 E10 ULX hight noise AM 09-04-03 Wed 0018 (LC2)
7760.0 E10 ULX 53 TPJNT//6270 USB 18-04-03 Fri 0100 (BS4)
7760.0 E10 ULX 53 TPJNT USB 23-04-03 Wed 0100 (BS4)
7760.0 E10 ULX 53 TPJNT USB 24-04-03 Thu 0100 (BS4)
7760.0 E10 ULX 53 TPJNT//6270 USB 25-04-03 Fri 0100 (BS4)
7760.0 E10 ULX 53 TPJNT USB 28-04-03 Mon 0100 (BS4)
7785 M13 272 CW 01-04-03 Tue 2100 (HFD)
7811 E10 CI02 AM 25-04-03 1547 (McB)
7918.0 E10 YHF2//4560 USB 03-04-03 Thu 0230 (BS4)
7918.0 E10 YHF in tfc USB 04-04-03 Fri 0130 (BS4)
7918.0 E10 YHF2//4560 USB 05-04-03 Sat 0230 (BS4)
7918.0 E10 YHF2 USB 06-04-03 Sun 0200 (BS4)
7918.0 E10 YHF 5 GPDZJ WGABC JQPPK MGNBL NDAVV USB 14-04-03 Mon
0130 (BS4)
7918.0 E10 YHF2 USB 14-04-03 Mon 0200 (BS4)
7918.0 E10 YHF2 USB 17-04-03 Thu 0200 (BS4)
7918.0 E10 YHF2 USB 18-04-03 Fri 0200 (BS4)
7918.0 E10 YHF2 USB 22-04-03 Tue 0230 (BS4)
7918.0 E10 YHF2 USB 24-04-03 Thu 0200 (BS4)
7918.0 E10 YHF2 USB 24-04-03 Thu 0230 (BS4)
7918.0 E10 YHF2//5830 USB 25-04-03 Fri 0230 (BS4)

7918.0 E10 YHF2//9202 USB 28-04-03 Mon 0200 (BS4)
7918.0 E10 YHF in tfc//5820 USB 29-04-03 Tue 0130 (BS4)
7918.0 E10 YHF2 USB 29-04-03 Tue 0200 (BS4)
7918.0 E10 YHF2//4560 USB 30-04-03 Wed 0230 (BS4)
7993 M13 284 CW 18-04-03 Fri 2000 (HFD)
7994 M13 284 CW 06-04-03 Sun 2000 (HFD)
8000.0 US Female voice mixed Letters +Numbers followed by us
female voice mixed letters USB 06-04-03 Sun 0008 (CE)
8010.0 M08a (transmission garbled and uncopiable) CW 16-04-03 Wed
0800 (MS)
8010.0 M08a ID 38322 92491 71341 CW 21-04-03 Mon 0800 (MS)
8010.0 V02a In prog AM 04-04-03 Fri 0610 (BM)
8077 M42 Dep. of State Comms Moscow. Msg on link 30011 MFSK32
01-04-03 1724 (LD)
8097.0 V02A AM 17-04-03 Thu 0715 (ROX)
8103 E07 913:0 AM 02-04-03 Wed 0530 (HFD)
8135.0 M08a ID 20212 01162 52562 CW 22-04-03 Tue 2300 (MS)
8136.0 M08a ID 31493 19422 46953 CW 05-04-03 Sat 1100 (MS)
8136.0 M08a (in progress) CW 06-04-03 Sun 1000 (MS)
8136.0 M08a ID 86043 66261 35852 CW 20-04-03 Sun 1000 (MS)
8136.0 M08a ID 34403 73031 77793 CW 27-04-03 Sun 1000 (MS)
8190 S17C 98036 //5301 AM 05-04-03 Sat 1250 (HFD)
8190 S17C 68028 //5301 AM 12-04-03 Sat 1250 (HFD)
8190 S17C 76023 //5301 AM 19-04-03 Sat 1250 (HFD)
8190 S17C 87034 //5301 AM 20-04-03 Sun 1250 (HFD)
8190 S17C 91044 //5301 AM 26-04-03 Sat 1250 (HFD)
8190 S17C 84031 //5301 AM 27-04-03 Sun 1250 (HFD)
8190 S17C 76045 //5301 AM 29-04-03 Tue 1250 (HFD)
8494.7 MX Cluster beacon "D", Odessa CW 10-04-03 1900 (RGA)
8494.7 MX Cluster beacon "D", Odessa CW 18-04-03 Tue 1954 (AB)
8494.7 MX Cluster beacon "D", Odessa CW 20-04-03 0137 (AJP)
8494.9 MX Cluster beacon "S", Arkhangel'sk CW 18-04-03 Tue 1954
8495 MX Cluster beacon "C", Moscow CW 10-04-03 1901 (RGA)
8495 MX Cluster beacon "C", Moscow CW 18-04-03 Tue 1954 (AB)
8495 MX Cluster beacon "C", Moscow CW 20-04-03 0134 (AJP)
8495.2 MX Cluster beacon "F" CW 21-04-03 1100 (AH)
8495.4 MX Cluster beacon "M" CW 21-04-03 1100 (AH)
9024.0 V02 In prog; QRM AM 16-04-03 Wed 0200 (BM)
9062.0 M08a ID 99191 04182 77792 (rpt of 0400z on 10235m) CW
27-04-03 Sun 0500 (MS)
9112.0 M08a Strong in Denver CW 26-04-03 Sat 0007 (Vambo)
9130.0 E10 EZI 91 ORDCA, 39 AISHT//6840 USB 03-04-03 Thu 0230
(BS4)
9130.0 E10 EZI 48 GQPLD USB 03-04-03 Thu 0300 (BS4)
9130.0 E10 EZI2//6840, 11565 USB 04-04-03 Fri 0100 (BS4)
9130.0 E10 EZI 90 UWQQG USB 04-04-03 Fri 0130 (BS4)
9130.0 E10 EZI2 USB 06-04-03 Sun 0200 (BS4)
9130.0 E10 EZI 49 SBGOD, 62 AOPPL//11565 sent as single msgs,

02-07 and 27-30 March USB 10-04-03 Thu 2230 (BS4)

9130.0 E10 EZI 91 WKIYP, 26 OLCPY//13533 rpt of msgs 2200z 0410
6840k USB 13-04-03 Sun 2000 (BS4)

9130.0 E10 EZI in tfc USB 13-04-03 Sun 2030 (BS4)

9130.0 E10 EZI 21 FICSF USB 13-04-03 Sun 2130 (BS4)

9130.0 E10 EZI 91 WKIYP, 26 OLCPY//6840 rpt of msgs 2000z 0413
9130k, 13533k USB 13-04-03 Sun 2200 (BS4)

9130.0 E10 EZI 11 BQOKI 51 VFPC0 USB 13-04-03 Sun 2230 (BS4)

9130.0 E10 EZI 21 FICSF//6840 rpt of msg 2130z 1304 9130k AM
14-04-03 Mon 0130 (BS4)

9130.0 E10 EZI2//11565 AM 14-04-03 Mon 0200 (BS4)

9130.0 E10 EZI2 USB 17-04-03 Thu 0200 (BS4)

9130.0 E10 EZI 85 GMFLS/6840 AM 17-04-03 Thu 2030 (JS3)

9130.0 E10 (in progress - YL/EE) USB 20-04-03 Sun 0307 (MS)

9130.0 E10 EZI 60 SOFIG//6840 AM 22-04-03 Tue 0230 (BS4)

9130.0 E10 EZI2//6840 USB 23-04-03 Wed 0100 (BS4)

9130.0 E10 EZI2//11565 AM 23-04-03 Wed 0200 (BS4)

9130.0 E10 EZI 60 SOFIG//6840 USB 24-04-03 Thu 0230 (BS4)

9130.0 E10 EZI2 USB 24-04-03 Thu 0300 (GG)

9130.0 E10 EZI2//6840 USB 25-04-03 Fri 0100 (BS4)

9130.0 E10 in progress 92 NPVQS USB 25-04-03 Fri 2208 (GG)

9130.0 E10 EZI 46 HXFOY (??? distorted by local QRM source) USB
25-04-03 Fri 2230 (GG)

9130.0 E10 EZI 92 NPVQS//13533 USB 27-04-03 Sun 2000 (BS4)

9130.0 E10 EZI USB 27-04-03 Sun 2030 (BS4)

9130.0 E10 EZI2 USB 28-04-03 Mon 0200 (BS4)

9130.0 E10 EZI 53 FAADD//6840 USB 29-04-03 Tue 0130 (BS4)

9130.0 E10 EZI2 and YHF2 (USB) mixed, normally EZI rf AM
29-04-03 Tue 0200 (BS4)

9130.0 E10 EZI 48 OOKKA USB 29-04-03 Tue 0300 (BS4)

9130.0 E10 EZI 60 SOFIG//6840 USB 30-04-03 Wed 0230 (BS4)

9130.0 E10 EZI 48 OOKKA USB 30-04-03 Wed 0300 (BS4)

9152.0 M08a ID 31493 19422 46953 (rpt of 1100z on 8136m) CW
05-04-03 Sat 1200 (MS)

9202.0 E10 YHF2 USB 23-04-03 Wed 0200 (BS4)

9202.0 E10 YHF2//7918 USB 28-04-03 Mon 0200 (BS4)

9230.0 V02 A 238/08 08/73 AM 17-04-03 Thu 0200 (BM)

9238.0 M08a In progress. Hrd at 0901Z CW 01-04-03 Tue 0900 (JAY)

9238.0 M08a Correction: Hrd at 1000Z, not 0900Z CW 01-04-03 Tue
1000 (JAY)

9238.0 M08a ID 84341 ----- (in progress) CW 06-04-03 Sun

9238.0 M08a ID 05331 17001 08912 CW 13-04-03 Sun 1100 (MS)

9238.0 M08a In progress w/ good levels CW 21-04-03 Mon 0007

9323.0 M08a ID 46312 04471 10031 CW 05-04-03 Sat 1000 (MS)

9323.0 M08a ID 51743 68631 53931 (rpt of 0800z on 10236m) CW
13-04-03 Sun 0900 (MS)

9323.0 V02a A 61822 16672 85521 AM 17-04-03 Thu 0400 (BM)

9877 M13 547 CW 24-04-03 Thu 1700 (HFD)

9877	M13	547 CW 25-04-03 Fri 1500 (HFD)
9877	M13	547 CW 25-04-03 Fri 1700 (HFD)
10125	E11	232/00 AM 03-04-03 Thu 0800 (HFD)
10126.0	M08a	ID 05334 70271 12313 CW 16-04-03 Wed 1100 (MS)
10235.0	M08	CW 27-04-03 Sun 0400 (HT)
10235.0	M08a	ID 89012 19822 46953 CW 06-04-03 Sun 0400 (MS)
10235.0	M08a	(in progress - no callups were sent - just message at 0405z) CW 20-04-03 Sun 0405 (MS)
10235.0	M08a	ID 99191 04182 77792 CW 27-04-03 Sun 0400 (MS)
10236.0	M08a	ID 51743 68631 53931 CW 13-04-03 Sun 0800 (MS)
10248	M16	8BY.DGSE. 434/914/459/429/121 CW 14-04-03 1957 (RGA)
10248	M16	8BY. DGSE. vvv vvv vvv 8by 8by 8by 099/862/429/709 CW 24-04-03 2050 (McB)
10344.0	M08a	ID 46312 04471 10031 (rpt of 1000z on 9323m) CW 05-04-03 Sat 1100 (MS)
10446.0	V02a	In prog AM 14-04-03 Mon 0300 (BM)
10552	M42	Dep. of State Comms Moscow. Msg on link 10020 MFSK32 18-04-03 1225 (LDO)
10623.0	M13	517 (R5) BT 228 22 BT CW 22-04-03 Tue 2000 (MS)
10858.0	M08a	ID 30761 61372 45502 CW 05-04-03 Sat 1200 (MS)
10858.0	M08a	ID 30761 61372 45502 (rpt of 1200z on 10858m) CW 05-04-03 Sat 1300 (MS)
10858.0	M08a	ID 01923 18202 77792 (uncopiable in CW mode, op probably forget to switch over) AM 26-04-03 Sat 1200
10871.7	MX	Cluster beacon "D", Odessa CW 14-04-03 1914 (RGA)
10871.7	MX	Cluster beacon "D", Odessa CW 18-04-03 Tue 1954 (AB)
10871.7	MX	Cluster becaon "D", Odessa CW 20-04-03 1108 (RGA)
10871.7	MX	Cluster becaon "D", Odessa CW 24-04-03 1607 (McB)
10871.9	MX	Cluster beacon "S", Arkhangelsk CW 18-04-03 0324
10871.9	MX	Cluster beacon "S", Arkhangelsk CW 18-04-03 Tue 1954
10871.9	MX	Cluster beacon "S", Arkhangelsk CW 20-04-03 0324
10872	MX	Cluster beacon "C", Moscow CW 14-04-03 1915 (RGA)
10872	MX	Cluster beacon "C", Moscow CW 18-04-03 Tue 1954 (AB)
10872	MX	Cluster beacon "C", Moscow CW 20-04-03 1108 (RGA)
10872	MX	Cluster beacon "C", Moscow CW 24-04-03 1607 (McB)
10872.0	MX	"C" Moscow CW 17-04-03 Thu 0325 (BM)
10872.2	MX	Cluster beacon "F" CW 21-04-03 1100 (AH)
10872.3	MX	Cluster beacon "K" CW 18-04-03 0349 (AJP)
10872.3	MX	Cluster beacon "K" CW 21-04-03 1100 (AH)
10968	XP	0-msg AM 01-04-03 Tue 2020 (HFD)
10968	XP	0-msg AM 08-04-03 Tue 2020 (HFD)
10968	XP	0-msg AM 23-04-03 Wed 2020 (HFD)
11028	E07	920:1 AM 09-04-03 Wed 2040 (HFD)
11084	XP	msg AM 23-04-03 Wed 0600 (HFD)
11084.0	XP	russian polytone USB 04-04-03 Fri 0600 (BM)
11116	E11	Oblique USB 18-04-03 0800 (MSM)
11515	S06	895 895 895 00000 AM 11-04-03 1010 (RP)
11545	E03	LP. Id 66389 USB 09-04-03 Wed 2000 (AB)

11545	E03	LP. Id 83222 USB 23-04-03 Wed 2000 (AB)
11545	E03	LP. Id 31209 USB 01-05-03 1900 (AB)
11563	E10	in progress AM 26-04-03 1909 (McB)
11565.0	E10	EZI2//6840, 9130 USB 04-04-03 Fri 0100 (BS4)
11565.0	E10	EZI 60 CMIDA, ?? ????? USB 09-04-03 Wed 2000 (BS4)
11565.0	E10	EZI 49 SBGOD, 62 AOPPL//9130 sent as single msgs, 02-07 and 27-30 March USB 10-04-03 Thu 2230 (BS4)
11565.0	E10	EZI 70 TCVIG//13533 very heavy o/r USB 12-04-03 Sat 1830 (BS4)
11565.0	E10	EZI2//9130 USB 14-04-03 Mon 0200 (BS4)
11565.0	E10	(in progress - YL/EE) USB 20-04-03 Sun 0306 (MS)
11565.0	E10	EZI2 USB 20-04-03 Sun 0400 (MS)
11565.0	E10	EZI2//9130 USB 23-04-03 Wed 0200 (BS4)
11565.0	E10	EZI2 USB 27-04-03 Sun 1930 (BS4)
11565.0	E10	EZI2 USB 30-04-03 Wed 0200 (BS4)
11566.0	V02a	S9 no preamble AM 25-04-03 Fri 0003 (Vambo)
11583	XP	msg AM 18-04-03 Fri 2050 (HFD)
11656.0	E10	EZI2//6840 USB 18-04-03 Fri 0100 (BS4)
12093.0	M08a	ID 01423 76161 91231 (this is usually the rpt of 1200z/10858m sked) CW 26-04-03 Sat 1300 (MS)
12179	XP	0-msg AM 01-04-03 Tue 2000 (HFD)
12179	XP	0-msg AM 23-04-03 Wed 2000 (HFD)
12180.0	V02a	In prog AM 16-04-03 Wed 0203 (BM)
12184	M42	Russian Intel. 5FGs to "018" 13-tone Multitone 18-04-03 0620 (LD0)
12184	XP	msg AM 23-04-03 Wed 0620 (HFD)
12184.0	XP	russian polytone USB 04-04-03 Fri 0620 (BM)
12194	E07	851:1-985/66=58686 AM 13-04-03 Sun 1740 (HFD)
12218	M13	714 CW 24-04-03 Thu 2000 (HFD)
12218	M13	714 CW 25-04-03 Fri 2000 (HFD)
12218.0	M13	714 (R5) BT 223 23 BT CW 11-04-03 Fri 2000 (MS)
12220	E07	920:1 AM 09-04-03 Wed 2020 (HFD)
12397	M13	253 CW 03-04-03 Thu 2000 (HFD)
12397	M13	253 CW 18-04-03 Fri 2000 (HFD)
13400.0	E03	Nice signal considering band conditions USB 01-04-03 Tue 0016 (FL)
13419	XP	0-msg AM 08-04-03 Tue 2030 (HFD)
13420	XP	msg AM 18-04-03 Fri 2030 (HFD)
13527.7	MX	Cluster beacon "D", Odessa CW 13-04-03 0224 (AJP)
13527.7	MX	Cluster beacon "D", Odessa CW 18-04-03 Tue 1954 (AB)
13527.9	MX	Cluster beacon "S", Arkhangelsk CW 18-04-03 Tue 1954
13528	MX	Cluster beacon "C", Moscow CW 13-04-03 0224 (AJP)
13528	MX	Cluster beacon "C", Moscow CW 18-04-03 Tue 1954 (AB)
13528	MX	Cluster beacon "C". Unusual string "CK CK CK CK CK TNK TNK TNK TNK" CW 20-04-03 Sun 0648 (AB)
13528.2	MX	Cluster beacon "F" CW 29-03-03 Sat (OK1HH)
13528.2	MX	Cluster beacon "F" CW 20-04-03 1817 (AJP)
13528.2	MX	Cluster beacon "F" CW 21-04-03 1100 (AH)

13528.4 MX Cluster beacon "M" CW 19-04-03 0945 (KB)
13528.4 MX Cluster beacon "M" CW 20-04-03 1815 (AJP)
13528.4 MX Cluster beacon "M" CW 21-04-03 1100 (AH)
13533 E10 EZI 1 AM 21-04-03 Mon 2100 (AB)
13533.0 E10 EZI2 USB 06-04-03 Sun 1930 (BS4)
13533.0 E10 EZI 70 TCVIG//11565 very heavy o/r USB 12-04-03 Sat 1830 (BS4)
13533.0 E10 EZI 91 WKIYP, 26 OLCPY//9130 rpt of msgs 2200z 0410 6840k USB 13-04-03 Sun 2000 (BS4)
13533.0 E10 EZI 92 NPVQS//9130 USB 27-04-03 Sun 2000 (BS4)
13571 E07 851:1-985/66=58686 AM 13-04-03 Sun 1720 (HFD)
13884 XP msg AM 23-04-03 Wed 0640 (HFD)
13884.0 XP russian polytone USB 04-04-03 Fri 0640 (BM)
13919 E07 920:1 AM 09-04-03 Wed 2000 (HFD)
14387 V07 304:1-397/89=29251 AM 17-04-03 Thu 0600 (HFD)
14447 M42 Dep. of State Comms Moscow. Msg on link 20010 MFSK32 03-04-03 0824 (LDO)
14487 E03 LP. Id 35916 USB 24-04-03 1410 (McB)
14487.0 E03 weak signal USB 01-04-03 Tue 1330 (HT)
14487.0 E03 USB 20-04-03 Sun 1330 (HT)
14487.0 E03 USB 20-04-03 Sun 1330 (HT)
14753 E06 in progress AM 10-04-03 1534 (MSM)
14866 E07 851:1-985/66=58686 AM 13-04-03 Sun 1700 (HFD)
14882 M42 Dep. of State Comms Moscow. Msg on link 70006 MFSK32 02-04-03 0823 (LDO)
14892 XP 0-msg AM 08-04-03 Tue 2010 (HFD)
14931 M16 8BY. DGSE. vvv vvv vvv 8by 8by 8by 533/433/459/161/609 CW 24-04-03 1548 (McB)
14931 M16 8BY. DGSE. vvv vvv vvv 8by 8by 8by 023/037/122/445/161/816 CW 26-04-03 0646 (McB)
15332.4 MX Cluster beacon "M" CW 21-04-03 1100 (AH)
15682 E03 LP. Id 35916 USB 24-04-03 1410 (McB)
16028.0 X06 Strong signal here. It went till 16.13, then nothing followed, carrier went off AM 14-04-03 Mon 1603 (JS3)
16084 E03 LP. Id 35916 USB 24-04-03 1410 (McB)
16084 E03 LP. Id 81241 USB 26-04-03 1803 (McB)
16087 104 104 104 532 532 97 97 = = 36868 36868 29t89 29t89 6tt34 6tt34 (...) 25428 25428 = = 532 532 97 97 00000. Short zero CW 26-04-03 0838 (McB)
16087 V07 304:1-397/89=29251 AM 17-04-03 Thu 0620 (HFD)
16331.7 MX Cluster beacon "D", Odessa CW 18-04-03 Tue 1954 (AB)
16331.9 MX Cluster beacon "S", Arkhangelsk CW 18-04-03 Tue 1954
16331.9 MX Cluster beacon "S", Arkhangelsk CW 26-04-03 1755
16332 MX Cluster beacon "C", Moscow CW 18-04-03 Tue 1954 (AB)
16332 MX Cluster beacon "C", Moscow CW 25-04-03 1358 (McB)
16332.2 MX Cluster beacon "F" CW 29-03-03 Sat (OK1HH)
16332.4 MX Cluster beacon "M" CW 19-04-03 0945 (KB)
17445 S06 11919 AM 16-04-03 Wed 1100 (JS3)

17487 V07 304:1-397/89=29251 AM 17-04-03 Thu 0640 (HFD)
 18761 E06 carrier till 1237 no sig AM 19-04-03 Sat 1230 (HFD)
 18761 E06 carrier till 1237 no sig AM 26-04-03 Sat 1230 (HFD)
 20047.7 MX Cluster beacon "D" CW 16-04-03 0852 (DW)
 20048 MX Cluster beacon "C" CW 16-04-03 0852 (DW)
 20197 M42 Dep. of State Comms Moscow. Msg on link 00169 MKSF32
 21-04-03 0944 (LDO)
 20946 M16 8BY. DGSE. vvv vvv vvv 8by 8by 8by 673/816/281/391/594
 CW 25-04-03 1347 (McB)

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